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**TRANSMITTAL
FORM**

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

Application Number	10/731,108
Filing Date	December 10, 2003
First Named Inventor	Todd A. Werpy
Art Unit	1624
Examiner Name	Unknown
Attorney Docket Number	13872-B

ENCLOSURES (Check all that apply)

<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance communication to Technology Center (TC)
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
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<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
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<input type="checkbox"/> Certified Copy of Priority Document(s)	Remarks	
<input type="checkbox"/> Response to Missing Parts/Incomplete Application		
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Jennifer J. Taylor, Ph.D., Reg. No. 48,711; Wells St. John P.S.
Signature	<i>Jennifer J. Taylor</i>
Date	<i>June 14, 2004</i>

CERTIFICATE OF TRANSMISSION/MAILING

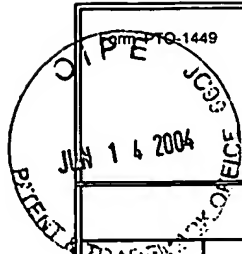
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U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE				ATTY. DOCKET NO. 13872-B		SERIAL NO. 10/731.108	
LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT Todd A. Werry et al.			
				FILING DATE December 10, 2003		GROUP 1624	
U.S. PATENT DOCUMENTS							
Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	AA	4,904,804	02-1990	Maizon			
	AB	6,429,316 B1	08-2002	Takahashi et al.			
	AC	6,350,883 B1	02-2002	Chen et al.			
	AD	6,348,601 B2	02-2002	Ohlbach et al.			
	AE	6,075,153	06-2000	Bergfeld et al.			
	AF	6,248,902 B1	06-2001	Bertola			
	AG	6,008,375	12-1999	Bergfeld et al.			
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	AI	5,847,213	12-1998	Karusu et al.			
	AJ	5,536,849	07-1996	Bergfeld et al.			
	AK	5,508,396	04-1996	Steffen			
	AL	5,478,950	12-1995	Bergfeld et al.			
FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Subclass	Translation
							Yes No
	AM	JP63027476	02-1988	Japan (abstract only)			x
	AN	EP0027022	04-1981	EPO			
	AO	WO 02/102772 A1	12-2002	PCT			
	AP						
	AQ						
OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)							
	AR		Nghiem et al., "An integrated process for the production of chemicals from biologically derived succinic acid", ACS Symposium Series, 2001, vol 748, pgs. 160-173. (abstract only)				
	AS		Subba Rao et al., "Synthesis of five-membered heterocycles over modified ZSM-5 catalysts", Catalysis: Modern Trends, December 1994, pgs. 110-113. (abstract only)				
	AT		Miyajima, "Manufacturing process for N-methyl pyrrolidone", Chem. Econ. Eng. Rev., 1971, vol 3(10), pgs. 29-31. (abstract only)(Year is sufficiently early so that the month is not in issue)				
EXAMINER				DATE CONSIDERED			
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

EV372458160

Form PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 13872-B	SERIAL NO. 10/731.108
LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT Todd A. Werpy et al.	
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U.S. PATENT DOCUMENTS							
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	AA	5,401,856	03-1995	Grey et al.			
	AB	5,347,021	09-1994	Taylor et al.			
	AC	5,338,861	08-1994	Botta et al.			
	AD	5,276,165	01-1994	Weyer et al.			
	AE	5,106,730	04-1992	Van Ness et al.			
	AF	5,101,044	03-1992	Schuster et al.			
	AG	4,885,371	12-1989	Tracy et al.			
	AH	4,420,620	12-1983	Murib			
	AI	4,404,391	09-1983	Meyer et al.			
	AJ	4,356,124	10-1982	Pesa et al.			
	AK	3,080,377	03-1963	Liao			
	AL	3,092,638	06-1963	Liao et al.			

FOREIGN PATENT DOCUMENTS								
		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
	AM	CN1104635	07-1995	CHI (abstract only)			x	
	AN	CN1173492	02-1998	CHI (abstract only)			x	
	AO							
	AP							
	AQ							

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	AR		Castiglioni et al., "Gamma-Butyrolactone for production of solvents with low environmental impact", Chimica e l'Industria (Milan), 1996, vol 78(5), pgs. 575-581. (abstract only)(Year is sufficiently early so that the month is not in issue)
	AS		Ershler et al., "Electroreduction of N-methylsuccinimide to N-methylpyrrolidone", Elektrokimiya, 1979, vol 15(4), pgs. 520-526. (abstract only)(Year is sufficiently early so that the month is not in issue)
	AT		Yu et al., "Production and application of N-methyl-2-pyrrolidone", Henan Huagong, 1999, vol 7, pgs. 10-12. (abstract only)(Year is sufficiently early so that the month is not in issue)

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U.S. PATENT DOCUMENTS							
*Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
	AA	4,152,331	05-1979	Meijer et al.			
	AB	4,151,171	04-1979	Kurkov			
	AC	4,012,418	03-1977	Schaafsma et al.			
	AD	3,966,763	06-1976	Greene			
	AE	3,884,936	05-1975	Hollstein			
	AF	3,775,431	11-1973	Rodewald			
	AG	3,767,644	10-1973	Fukuoka et al.			
	AH	3,661,894	05-1972	Wehner et al.			
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	AL	2,674,602	04-1954	Schuster			

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Document Number	Date	Country	Class	Subclass	Translation		
					Yes	No	
AM	CS146054	11-1972			x		
AN	CS191496	07-1979			x		
AO	CS212181	02-1982			x		
AP	DE2025172	01-1971			x		
AQ	DE2165643	07-1972			x		

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	AR		Takahata et al., "N-Alkylation of lactams with phase transfer catalyst", Heterocycles, 1979, vol 12(11), pgs. 1449-1451. (abstract only)(Year is sufficiently early so that the month is not in issue)
	AS		Auerbach et al., "N-Methylation of amides, lactams, and ureas", Journal Org. Chem., 1976, vol 41(4), pgs. 725-726. (abstract only)(Year is sufficiently early so that the month is not in issue)
	AT		Subba Rao et al., "Modified ZSM-5 Catalysts for the Synthesis of Five and Six-Membered Heterocyclic Compounds", Journal of Organic Chemistry, 1994, vol 59(14), pgs. 3998-4000. (abstract only)(Year is sufficiently early so that the month is not in issue)

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U.S. PATENT DOCUMENTS							
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	AA	2,267,757	12-1941	Schuster et al.			
	AB	3,198,808	08-1965	Walldorf et al.			

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		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
	AC	DE3701297	07-1988	Germany (abstract only)			x	
	AD	DE19626123	01-1998	Germany (abstract only)			x	
	AE	EP632030	01-1995	EPO (abstract only)			x	
	AF	EP1201652	05-2002	EPO (abstract only)			x	
	AG	JP42023344	11-1967	Japan (abstract only)			x	
	AH	JP47021420	06-1972	Japan (abstract only)			x	
	AI	JP47018751	05-1972	Japan (abstract only)			x	
	AJ	JP47027975	10-1972	Japan (abstract only)			x	
	AK	JP49000259	01-1974	Japan (abstract only)			x	
	AL	JP49020582	05-1974	Japan (abstract only)			x	
	AM	JP49020585	05-1974	Japan (abstract only)			x	
	AN	JP49020586	05-1974	Japan (abstract only)			x	
	AO	JP49048432	12-1974	Japan (abstract only)			x	
	AP	JP51016657	02-1976	Japan (abstract only)			x	
	AQ	JP51042107	11-1976	Japan (abstract only)			x	
	AR	JP62120360	06-1987	Japan (abstract only)			x	
	AS	JP01186863	07-1989	Japan (abstract only)			x	
	AT	JP01186864	07-1989	Japan (abstract only)			x	
	AU	JP01190667	07-1989	Japan (abstract only)			x	
	AV	JP03081261	04-1991	Japan (abstract only)			x	
	AW	JP10158238	06-1998	Japan (abstract only)			x	

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	AX		Kukalenko et al., "New synthesis of N-aryl and N-alkylpyrrolidones, and some of their properties", Khim. Geterotsikl. Soedin., 1971, vol 7(6), pgs. 773-774. (abstract only)(Year is sufficiently early so that the month is not in issue)
	AY		Anonymous, "Process for the isomerization of 4-methylamino-2-buten-1-ol to N-methylpyrrolidinone", Research Disclosure, 1993. (abstract only)(Year is sufficiently early so that the month is not in issue)
	AZ		Sojka et al., "Problems in preparation of 2-pyrrolidinone and N-methylpyrrolidinone", Ropa a Uhlie, 1985, pgs. 400-410. (abstract only)(Year is sufficiently early so that the month is not in issue)

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	AA	3,448,118	06-1969	Chichery et al.			
FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Subclass	Translation
							Yes No
	AB	JP11349566	12-1999	Japan (abstract only)			x
	AC	JP2001002638	01-2001	Japan (abstract only)			x
	AD	JP2001002640	01-2001	Japan (abstract only)			x
	AE	JP2001114760	04-2001	Japan (abstract only)			x
	AF	JP2001302626	10-2001	Japan (abstract only)			x
	AG	JP2001354646	12-2001	Japan (abstract only)			x
	AH	JP2001354647	12-2001	Japan (abstract only)			x
	AI	JP2000256312	09-2000	Japan (abstract only)			x
	AJ	RO96953	05-1989	Romania (abstract only)			x
	AK	RO111189	07-1996	Romania (abstract only)			x
	AL	RO113640	09-1998	Romania (abstract only)			x
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	AN	SU619484	08-1978	Russia (abstract only)			x
	AO	SU1558903	04-1990	Russia (abstract only)			x
	AP	SU1735283	05-1992	Russia (abstract only)			x
	AQ	SU1735284	05-1992	Russia (abstract only)			x
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	AS		Xue et al., "Studies on N-methyl-alpha-pyrrolidone synthesis". Shanghai Huagong, 1996, pgs. 10-14. (abstract only)(Year is sufficiently early so that the month is not in issue)				
	AT		Qiu et al., "Synthesis of N-methyl-2-pyrrolidone in vapor phase in the presence of catalysts" Shiyu Huagong, 1996, pgs. 179-182. (abstract only)(Year is sufficiently early so that the month is not in issue)				
	AU		Yan, "Preparation of 1-methyl-2-pyrrolidone by electrochemical method". Tianranqi Huagong, 2000, pgs. 44-46. (abstract only)(Year is sufficiently early so that the month is not in issue)				
	AV		Yano, "N-methyl-2-pyrrolidone", Yuki Gosei Kagaku Kyokashii, 1983, pgs. 880-881. (abstract only)(Year is sufficiently early so that the month is not in issue)				
	AW		Cen et al., "N-alkylation of amides, imides, and lactams under phase-transfer catalysis", Zhongguo Yiyao Gongye Zazhi, 1990, pgs. 218-220. (abstract only)(Year is sufficiently early so that the month is not in issue)				
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	AA	3,681,387	08-1972	Hollstein et al.			
	AB	3,812,148	05-1974	Hollstein et al.			
	AC	4,263,175	04-1981	Pesa et al.			
	AD	4,731,454	03-1988	Otake et al.			
	AE	4,780,547	10-1988	zur Hausen et al.			
	AF	4,814,464	03-1989	Olsen			
	AG	4,841,069	06-1989	Olsen			
	AH	5,101,045	03-1992	Kochler et al.			
	AI	5,157,127	10-1992	Weyer et al.			
	AJ	5,434,273	07-1995	Weyer et al.			
	AK	4,851,546	07-1999	Graham et al.			
	AL						

FOREIGN PATENT DOCUMENTS							
	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
	AM	WO 03/051868 A1	26.06.2003	PCT			
	AN						
	AO						
	AP						
	AQ						

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)			
	AR		Cerveny et al. CAS ABSTRACT 125:141930, (1996), 61(5), 764-769
	AS		Stamboliyska et al., "IR spectra and structure of 2,5-pyrrolidinedione (succinimide) and of its nitration: experimental and ab initio MO studies", Journal of Molecular Structure 516 (2000), pp. 237-245.
	AT		

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Inventor: Todd A. Werpy et al.

Title: Process for Producing Cyclic Compounds

Assignee: Battelle Memorial Institute

INFORMATION DISCLOSURE STATEMENT

References – See Attached Form PTO-1449

The attached form PTO-1449 is submitted in compliance with 37 CFR §1.56. No admission is made regarding whether any of the submitted references are prior art. Copies of the references are attached with the exception of U.S. patents and published U.S. applications (1276 Off. Gaz. Pat. Off. 55, 05 Aug. 2003).

Respectfully submitted,

Dated:

June 14, 2004

By:

Jennifer J. Taylor
Jennifer J. Taylor, Ph.D.
Reg. No. 48,711